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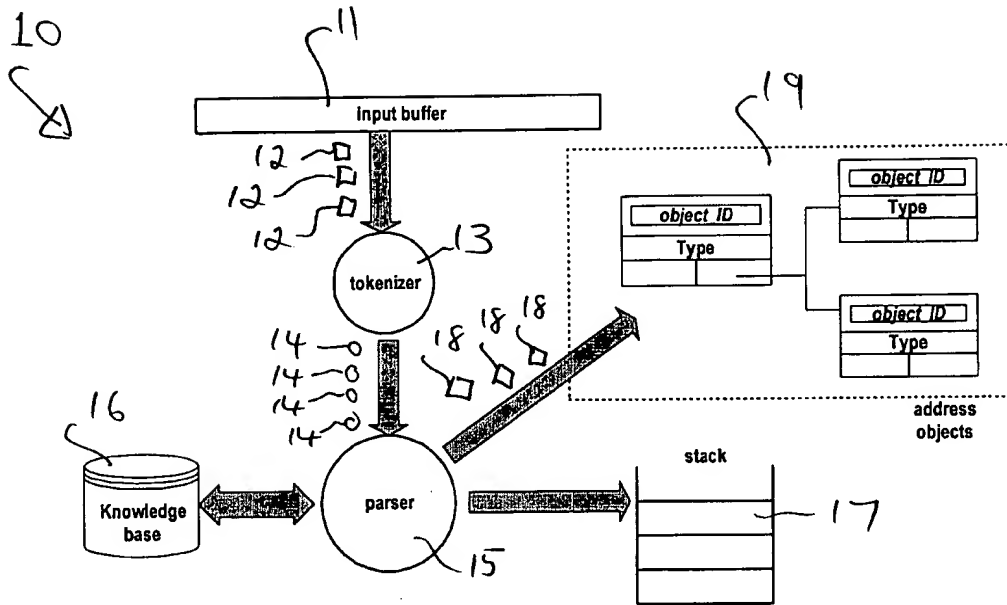


Figure 1. The conceptual parsing architecture.

Input buffer: the data structure that contains the character string to be parsed.
We assume the characters are encoded by UNICODE.

FIG. 1

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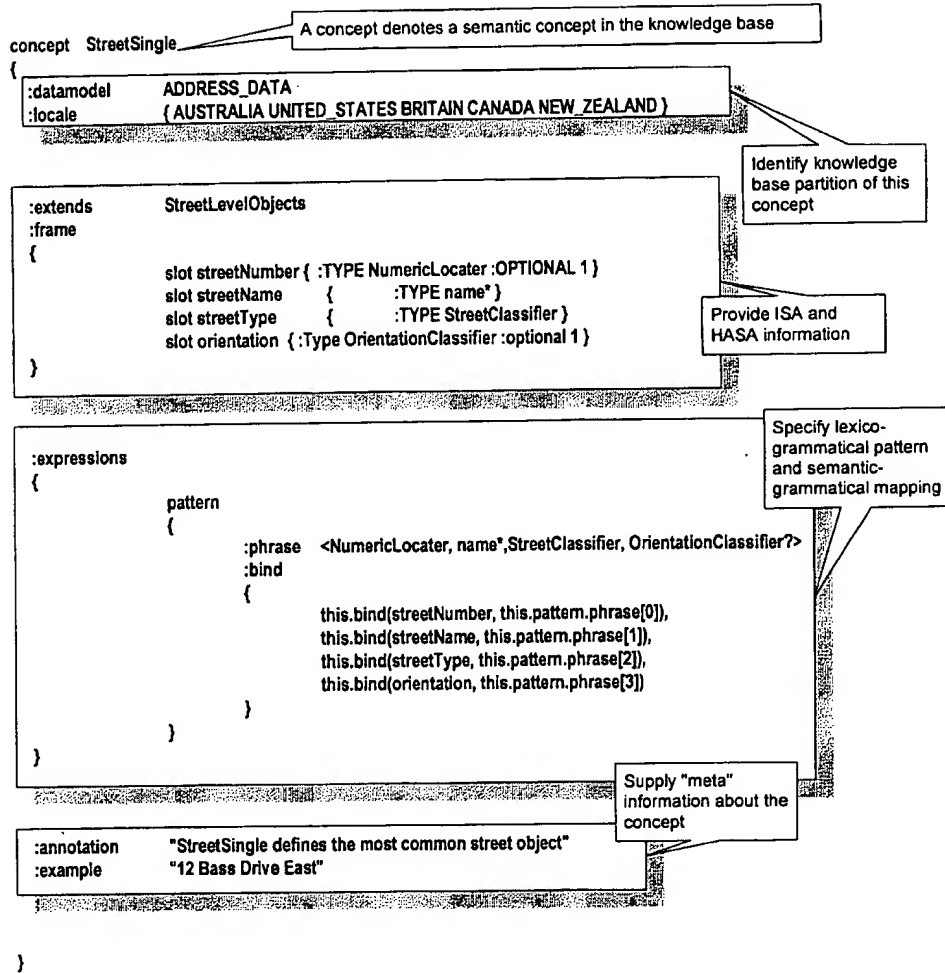


FIG. 2

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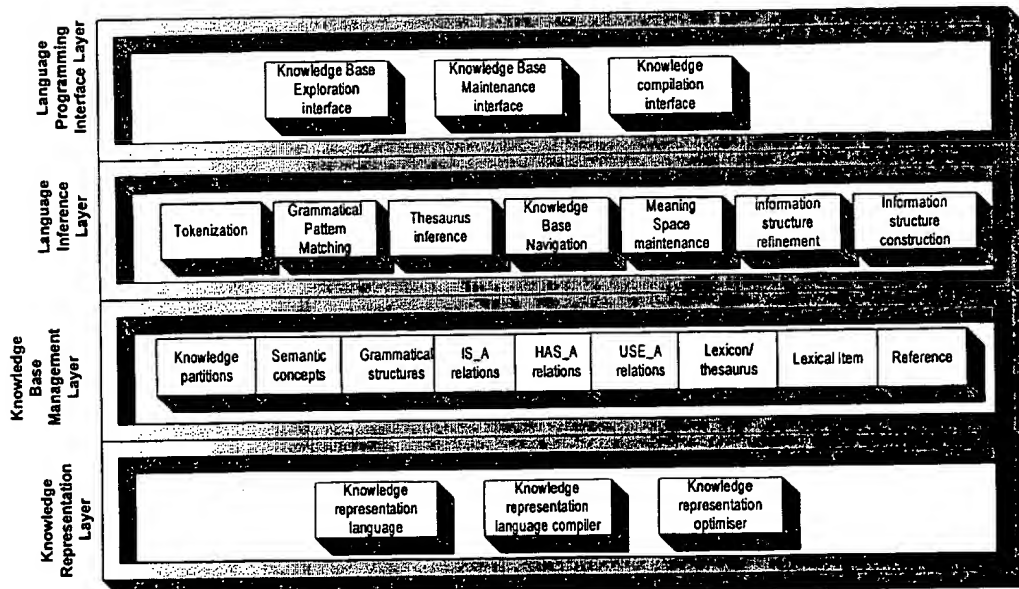


FIG. 3

TEST 90" E2TE8860

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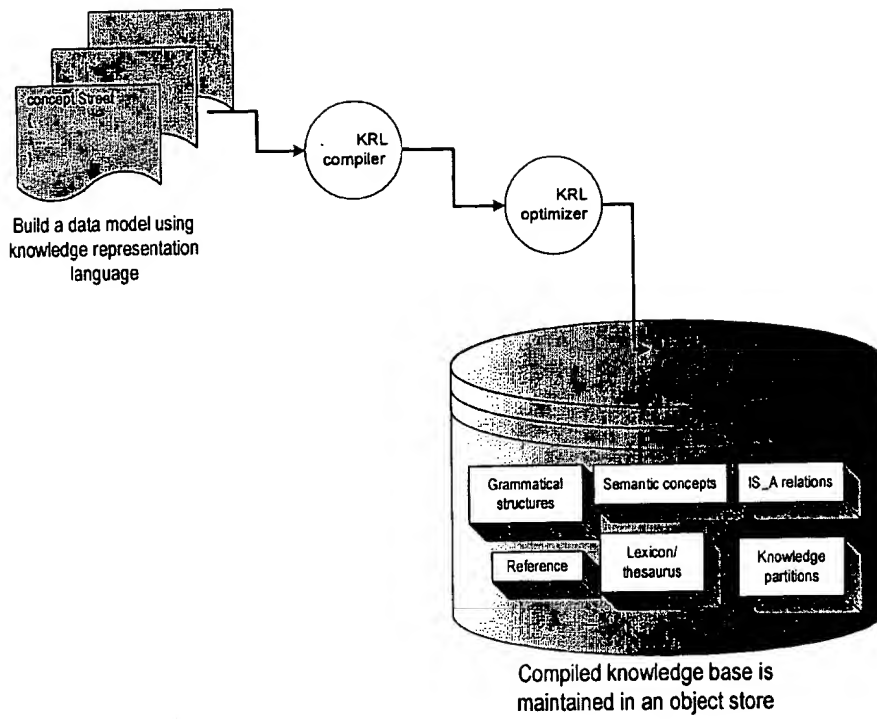


FIG. 4

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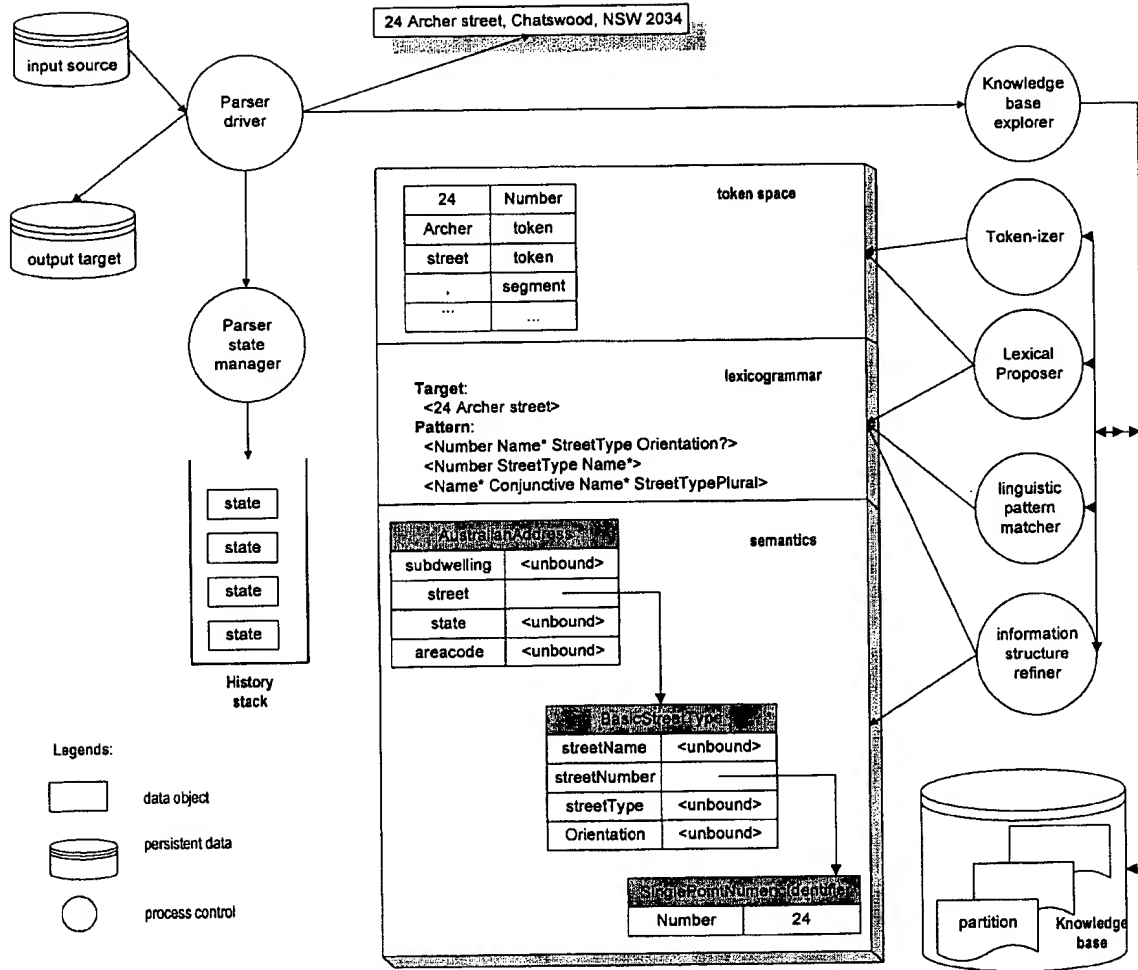


FIG. 5

09833123-051501

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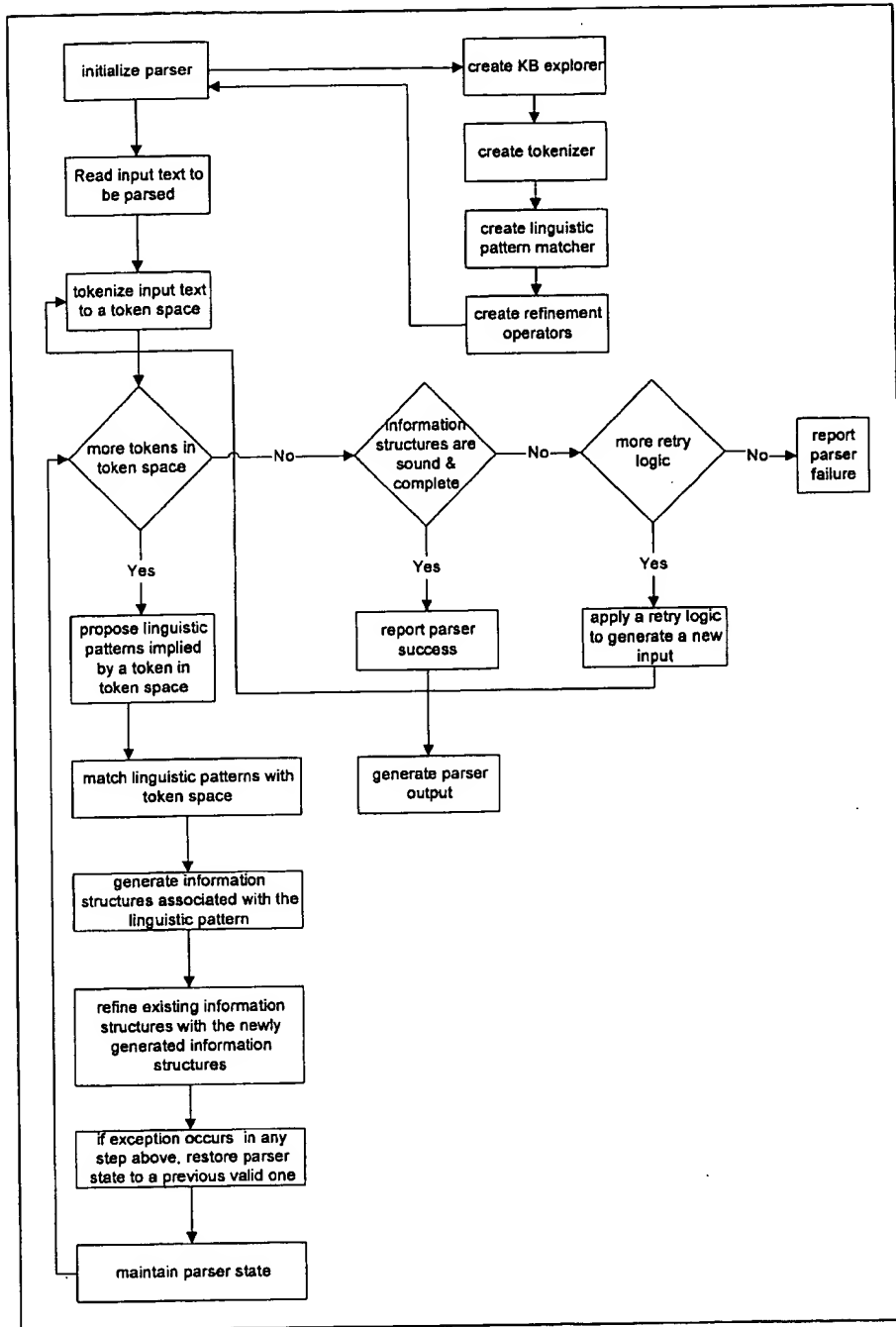


FIG. 6

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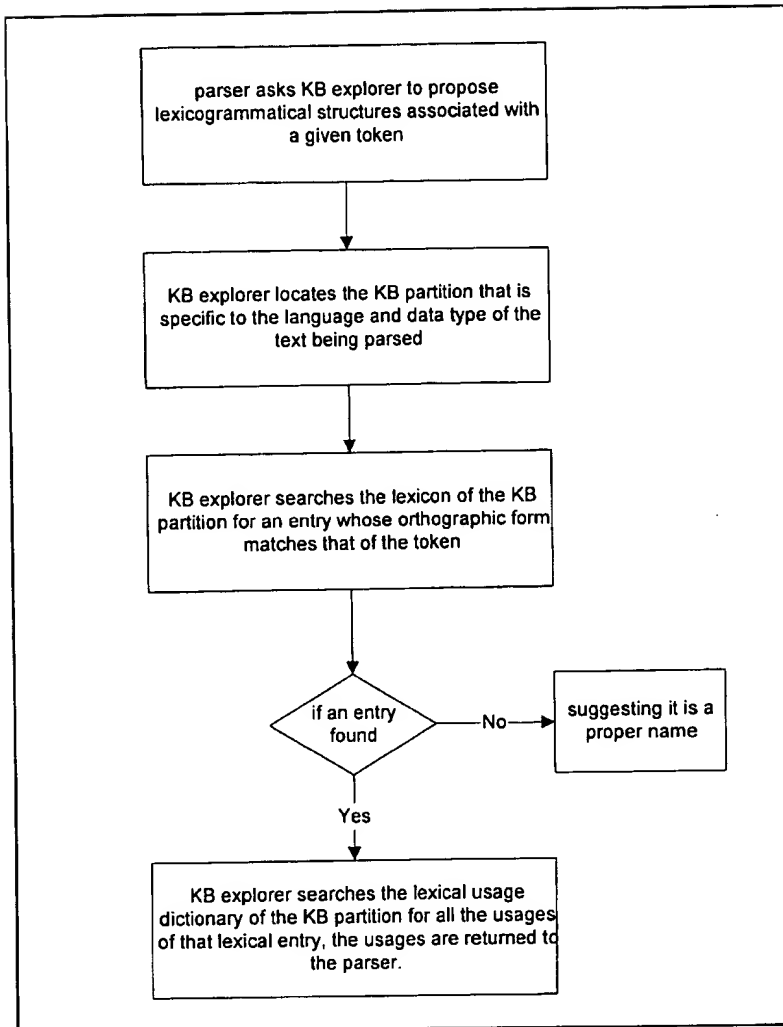


FIG. 7

09883123-061501

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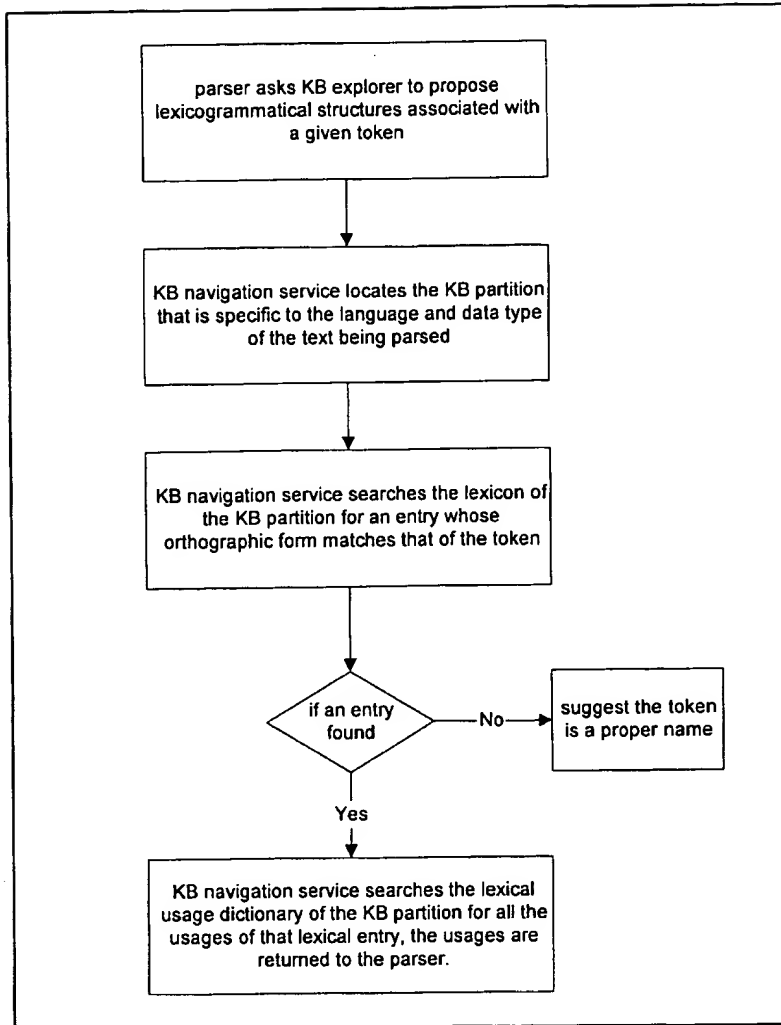


FIG. 8

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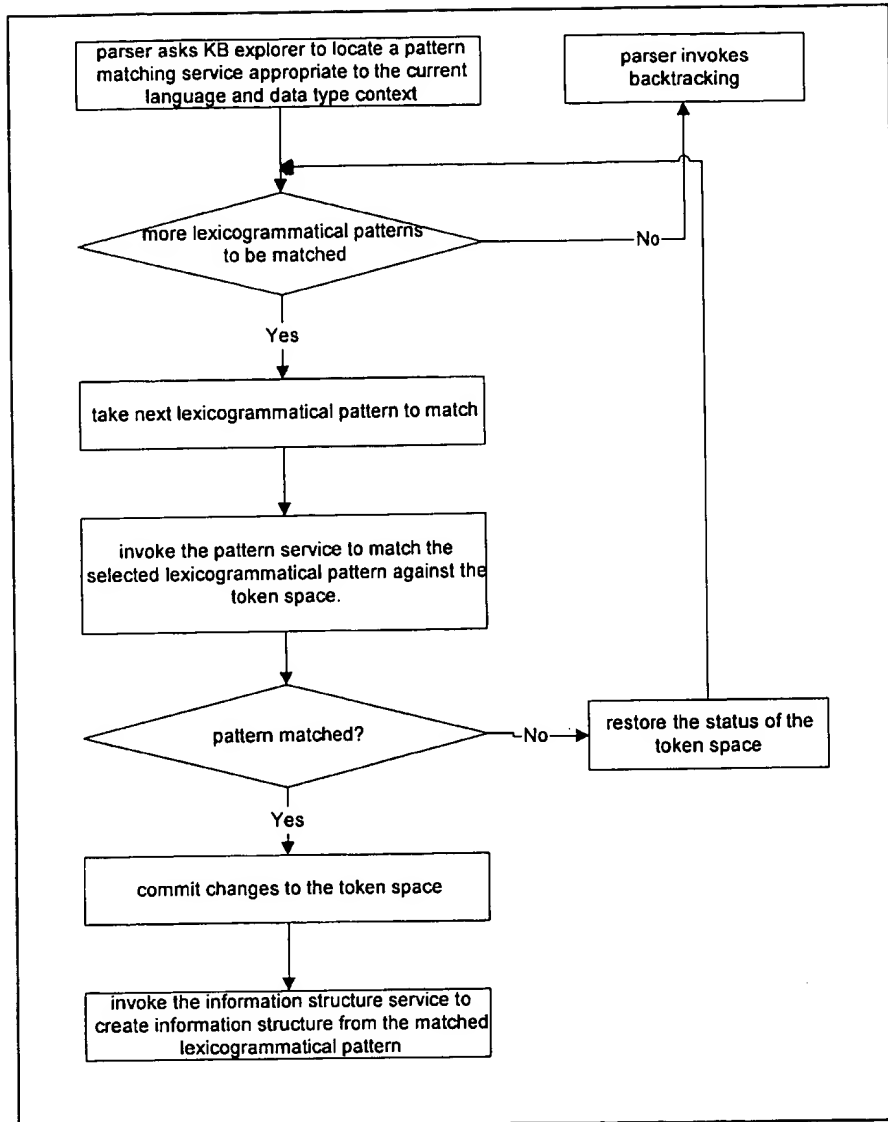


FIG. 9

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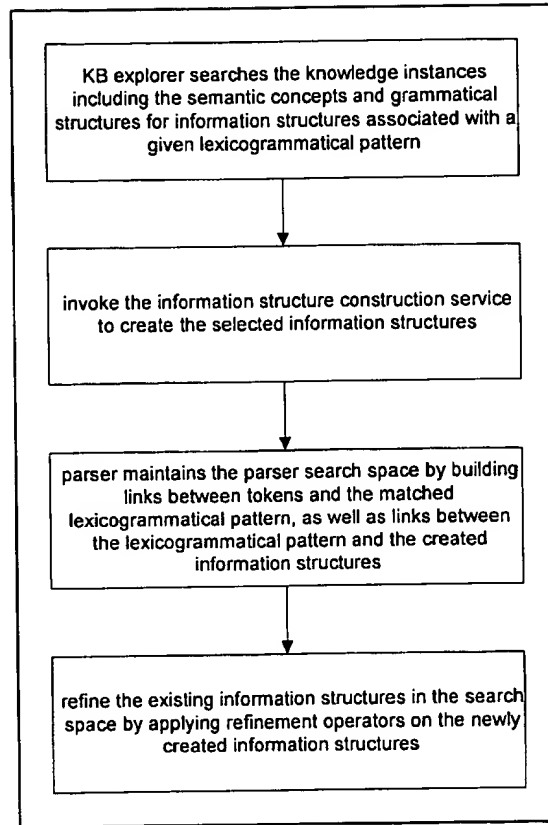


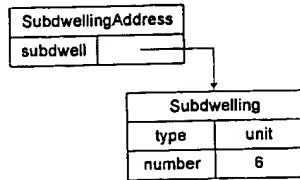
FIG. 10

0988123-061501
TOST90"E2TE8860

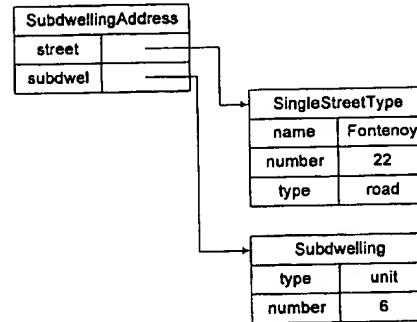
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Example address: unit 6, 22 Fontenoy road,

existing information structure



refined information structure



elaboration

new information structure

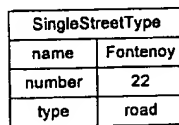


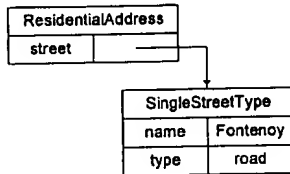
FIG. 11

09883123-061501
TESTED - E2TE8860

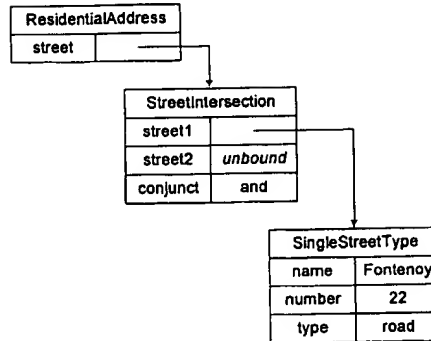
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Example address: Fontenoy road and Curzon street,

existing information structure



refined information structure



encapsulation

new information structure

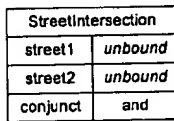


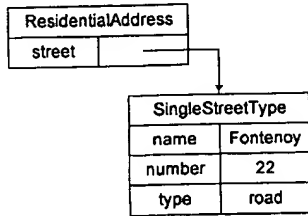
FIG. 12

0933123-061501
TOST90-E2TEB360

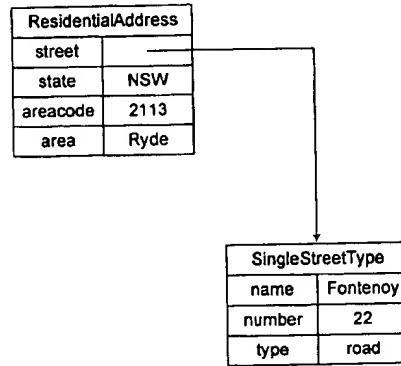
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Example address: 22 Fontenoy road, Ryde, NSW 2113

existing information structure



refined information structure



enhancement

new information structure

AustralianAddress	
state	NSW
areacode	2113
area	Ryde

FIG. 13

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Example address: unit 6,

existing information structure

new information structure

Subdwelling	
type	unit
number	6



refined information structure

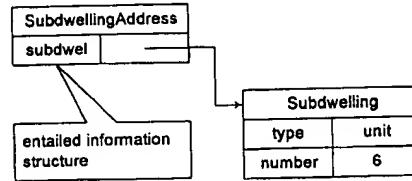


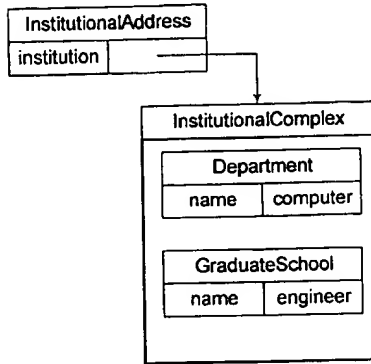
FIG. 14

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T05T90-EEF8860

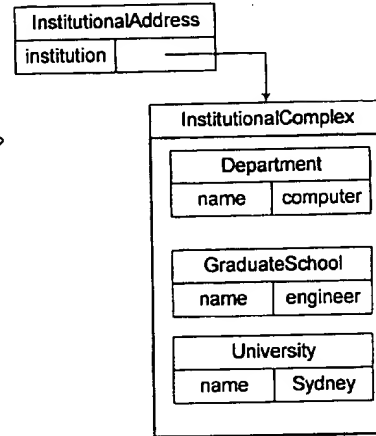
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Example address: Dept. of computer science, school of engineering, Univ. of Sydney,

existing information structure



refined information structure



extension

new information structure

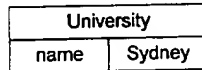


FIG. 15

0983123-061501

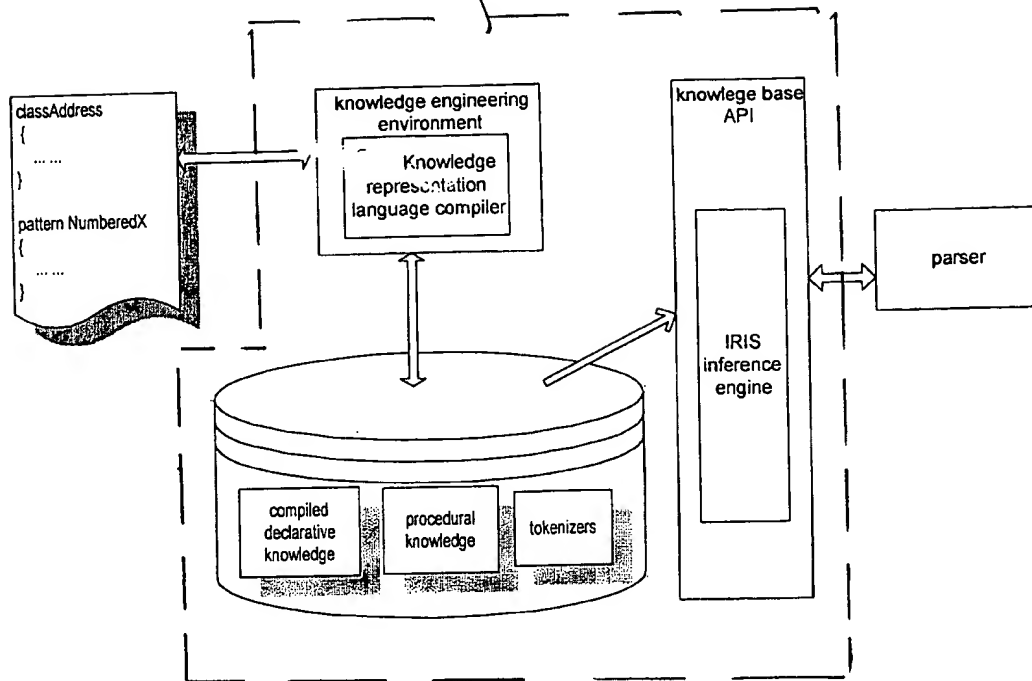


FIG. 16

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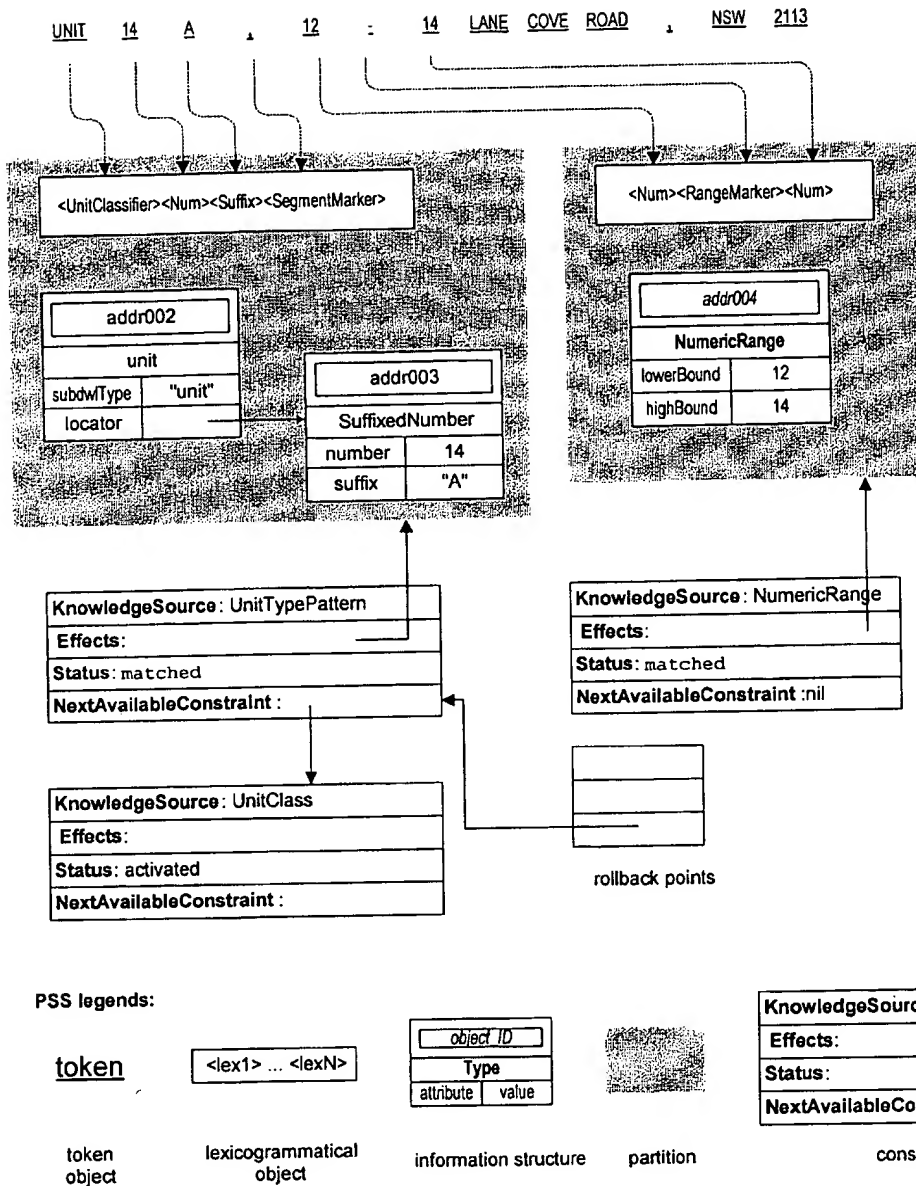


FIG. 17

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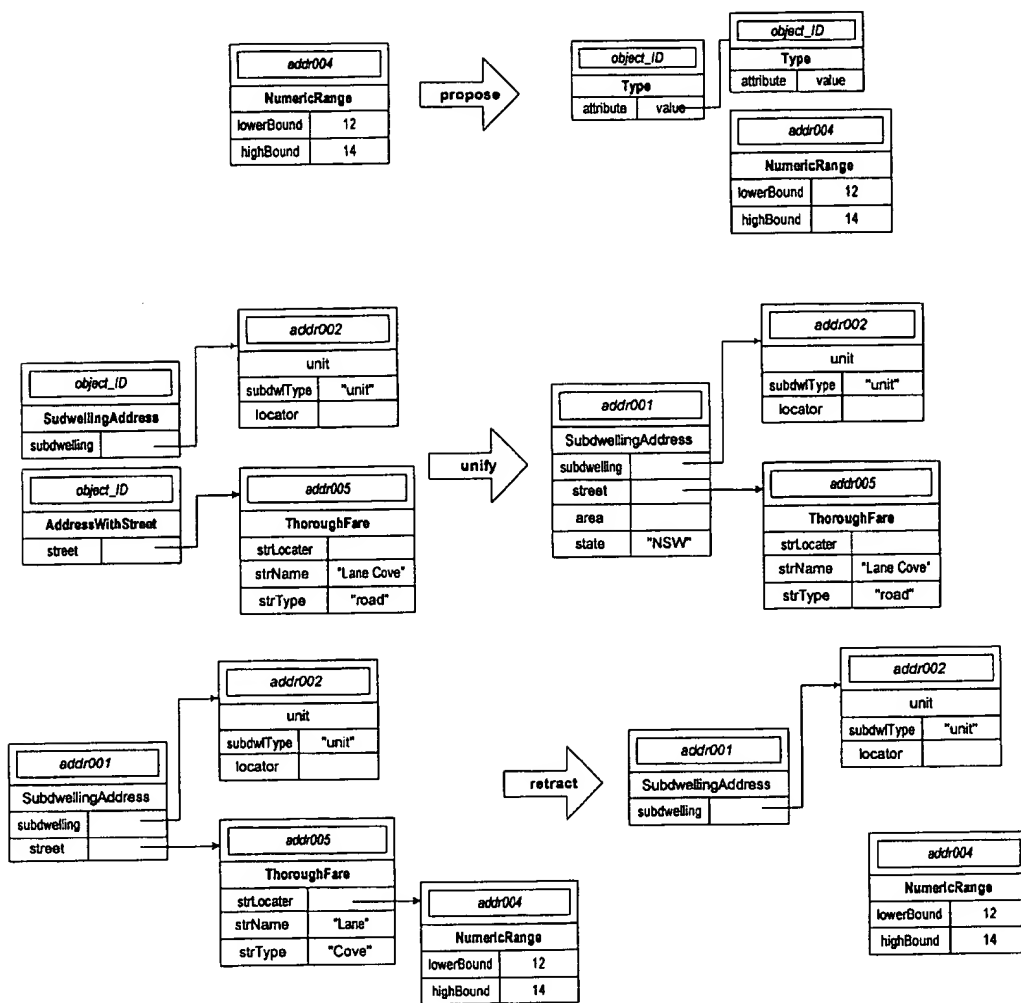


FIG. 18

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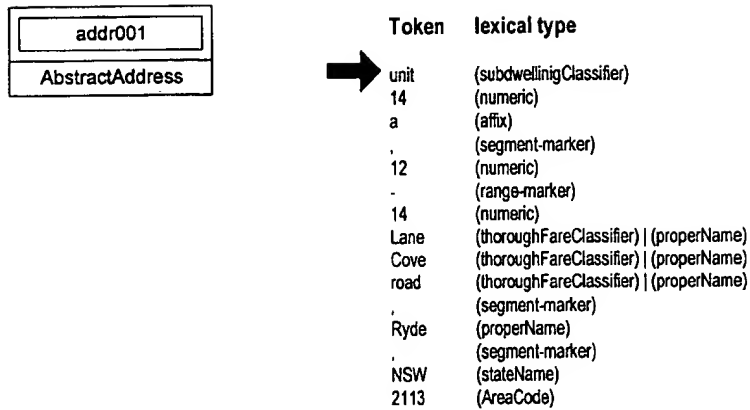


Figure 19.1 Initial state of parsing.

FIG. 19.1

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TOST90-ET8860

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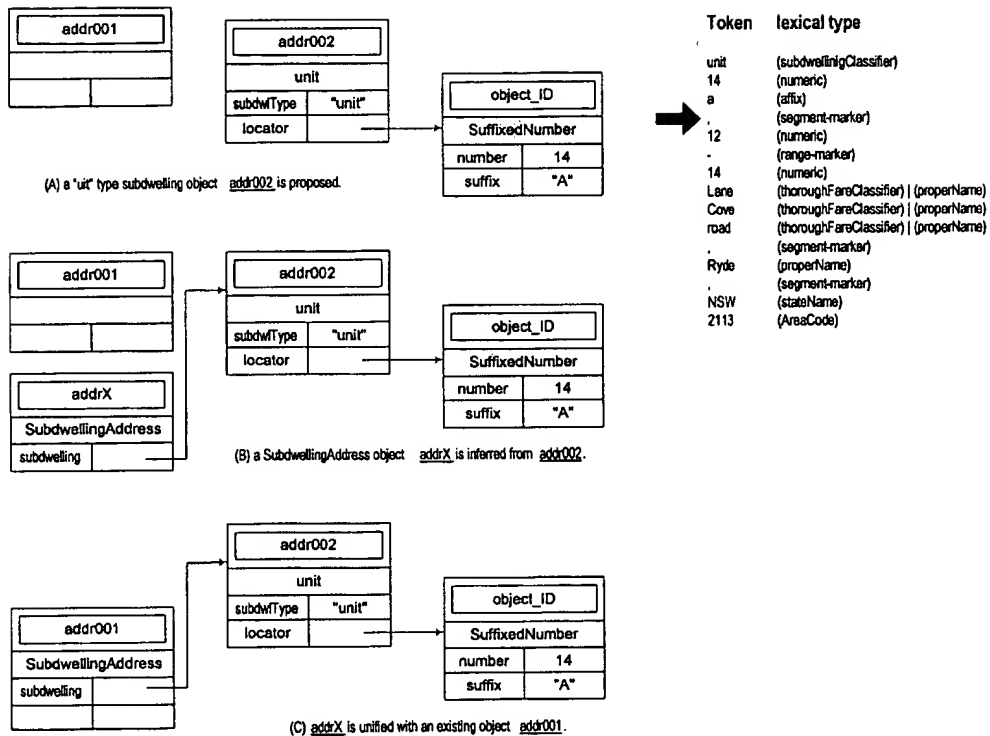


Figure 19.2. Address objects built after parsing "unit 14A".

FIG. 19.2

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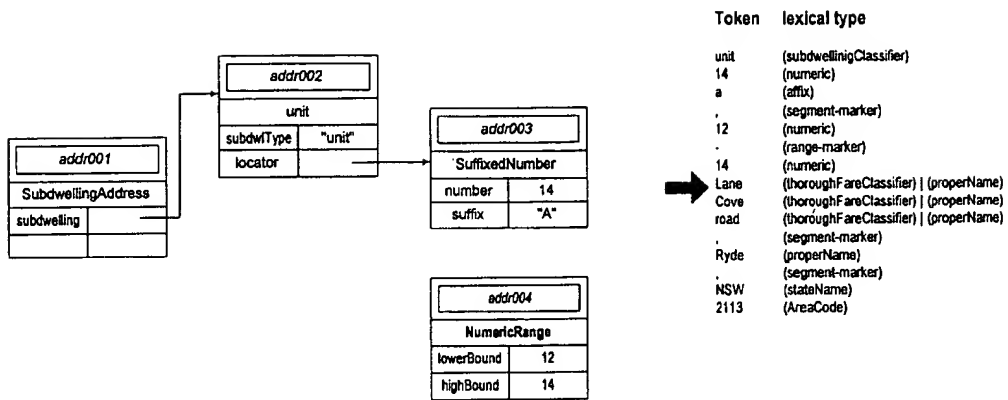
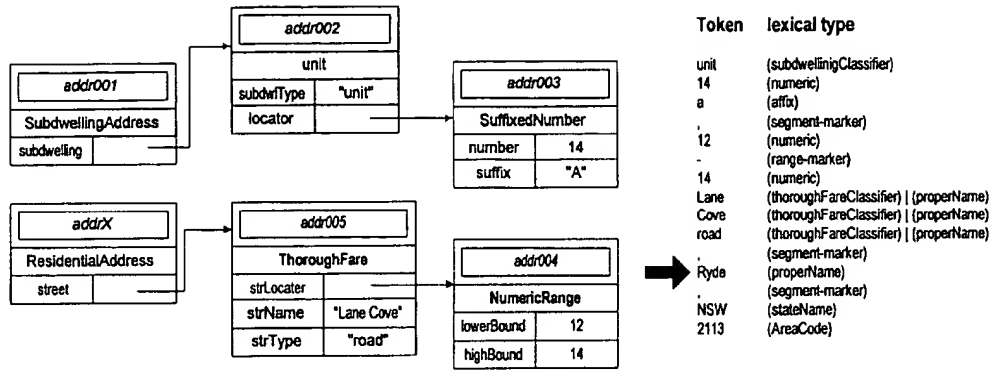


Figure 19.3. Temporary information structure held in stack.

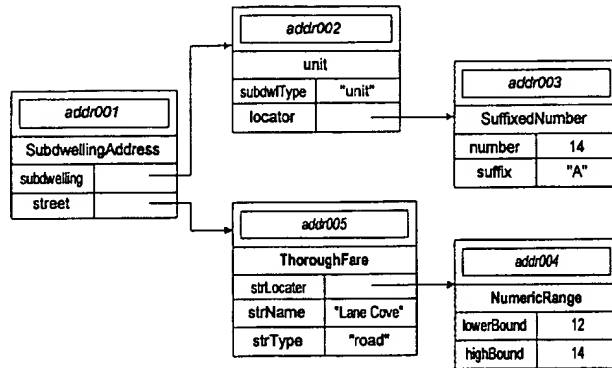
FIG. 19.3

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TOST90"E2TE8860

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(a) a ThoroughFare object is created and a ResidentialAddress object addrX is inferred.



(b) addrX is unified with the existing addr001 object, elaborating the structure of the latter.

Figure 19.4. Information structure obtained after parsing "12-14 Lane Cove Road".

FIG. 19.4



FIG. 19.5